



# VGN-Z691Y/X

### VAIO® Z Series Notebook PC

# Uncompromising ultra-portable design

### POWERFUL MOBILE PERFORMANCE

Intel® Core™ 2 Duo P9600 processor (2.66GHz¹) with Intel® Centrino® 2 processor technology – the latest chipset from Intel®.

The VAIO® Z notebook comes pre-installed with Genuine Microsoft® Windows Vista® Ultimate 64-bit.

Uncompromising elegance weaved into a 3.4 lb<sup>7</sup> go-anywhere package.

XBRITE-DuraView<sup>™</sup> LCD technology with LED backlight for a brighter, crisper, tougher display.

### WIRELESS FREEDOM

Your friends, your news, and your entertainment when you need it. The VAIO® Lifestyle PC lets you browse the web in more places with Verizon Wireless Mobile Broadband Built-In, America's largest and most reliable 3G  $network^{20}\,.$ 

Extend the reach of your Z notebook with Stereo A2DP Bluetooth® technology<sup>16</sup> that is ideal for advanced wireless communication and streaming uncompromised CD-quality stereo music to Bluetooth® technology enabled speakers or headphones.

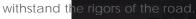
# **ENDLESS FEATURES**

An HDMI™ output<sup>5</sup> delivers video and audio to external sources via a single cable so you can enjoy HD entertainment on your compatible big screen TV without a myriad of extra cables (HDMI™ cable sold separately).

A built-in biometric fingerprint scanner makes authentication and secure access quick and easy - you only need your fingerprint.

G-Sensor™ Shock Protection technology makes your data even less vulnerable to loss or damage. When the built-in 3D acceleration sensor detects a risky movement, the HDD-head will lock up to secure its position and help protect the disc from scratching.

Built tough for business, the VAIO® Z notebook offers the portability of a 3.4 lbs<sup>7</sup> (with standard battery) form factor with the performance of a larger computer. Encased in durable carbon fiber and featuring scratch-resistant XBRITE-Dura View™ LCD technology, the Z notebook is designed to





















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# VAIO® Z Series Notebook PC

### **Specifications**

ComputerType: Notebook

Type of Use: Ultra-portable

Action Buttons: S1, S2, WLAN/Bluetooth® on/off, Performace Select

Pointing Device: Electro-static touch pad

Security: Biometric Fingerprint Sensor Trusted Platform Module (TPM) TCG Ver.1.2 compliant

Keyboard: QWERTY, 82 keys with 2.5mm stroke and 19.05mm pitch Camera: Built-in MOTION EYE® camera and microphone

Type: Intel® Core™ 2 Duo Processor P9600

Speed: 2.66GHz

Front Side Bus Speed: 1066MHz

L2 Cache: 6MB

Technology: Intel® Centrino® 2 processor technology

### Type: DDR3 SDRAM

Installed: 4GB15 PC3-8500 (2GBx2)

Maximum: 4GB Speed: 1066MHz

Capacity: 320GB2

Speed: 7200rpm

Impact Protection: G·Sensor™ Shock Protection - Hard Disk Drive

BD-ROMRead: 2x max

Blu-ray Disc™ Support: Read™/Write™(BD-R/BD-RE/BR-ROM)

CDSupport: Read / Write (CD/-R/-RW)

DVDSupport: Read / Write (DVD±R/±RW/±RDL/-RAM)

BD-R DL Read / Write: 2x max

BD-R Read / Write: 2x max BD-RE DL Read / Write: 2x max

BD-RE Read / Write: 2x max.

Multimedia Card Reader: One Memory Stick PRO™ media slot with MagicGate® functionality
One ExpressCard® /34 slot

One Secure Digital (SD memory card) media slot

Sound System: Intel® High Definition Audio

Screen Size: 13.1" Resolution: 1600 x 900

XBRITE-DuraView™ Technology: Yes

Back Light Technology: LED

Processor: NVIDIA® GeForce® 9300M GS GPU with Total Available Graphics Memory of 2010MB (max.) and Mobile Intel® Graphics Media Accelerator 4500MHD with Intel® Clear Video Technology with Total Available Graphics Memory: 1750MB (max.)

Video RAM: 256MB of dedicated video RAM

Technology: Hybrid Graphics System

Chipset: Mobile Intel® GM45 Express Chipset

Interface: HDMI™ <sup>5</sup> and VGA out w/ Smart Display Sensor

Max. External Resolution via VGA: 2048 x 1536 Max. External Resolution via DVI: 1920 x 1200

Max. External Display Resolution via HDMI™ ouput/cable: 1920 x 1080

### Inputs and Outputs

### Headphone Jack: 1

Modem Jack: 1

Microphone Input: 1

Port Replicator Connector(s): 1 (Bottom)

USBPort(s): 2 (2.0 compliant)

VGA Output(s): 1

DC-In: 1

i.LINK® Connection: 1 (4pin) i.LINK® connector (IEEE 1394)°

Ethernet Connection (s): 1 HDMI™ Output: 1

Networking/Modem

Ethernet Protocol: 10Base-T/100Base-TX/1000Base-T

Ethernet Speed: Fast Ethernet (RJ-45)

Modem Type: Integrated V.92/V.90 Modem (RJ-11) Wireless LAN: Intel® WiFi Link 5100AGN (802.11a/b/g/n)

Bluetooth® Technology: Integrated Stereo A2DP Bluetooth® Technology

Mobile Broadband: Verizon Wireless Mobile Broadband Built-In

BatteryType: Standard Capacity Lithium-ion Battery (VGP-BPS12) Estimated Battery Life: 2.5 to 5.5 hours" Standard Capacity Battery 3.5 to 8.0 hours" Large Capacity Battery

PowerRequirements: 100W + 10%

Operating System: Genuine Microsoft® Windows Vista® Ultimate 64-bit Supplied Software: Microsoft® Works SE 9.0 w/ 60-Day Trial Version of Microsoft® Office Home and Student 2007

VAIO® Multimedia Suite: VAIO® Startup Assistant

IQ® Multimedia Suite: VAIO® Startup Assistant
Click to Disc Editor - Import, Edit, Burn
VAIO® Movie Story - Simple Movie Creation
VAIO® MusicBox - Music by Mood
VAIO® Media plus - Multimedia Streaming Software
\*Please access VAIO® Help and Support from your PC for a complete
list of software applications and trials.

Anti-Virus & Recovery Software: Microsoft® Windows Live™ OneCare™ Trial Version

### Service and Warranty Information

Telephone Support: 1 year toll-free technical telephone assistance, available 24/7"

Online and Email Support: Support available from http://www.esupport.sony.com/EN/VAIO

Limited Warranty Term: 1 year limited warranty<sup>12</sup>. See actual warranty

International Service: 1 year international service plan available Registration required. See www.sony.com/IRSP for details.

RoHS®: Compliant For more information: www.sony.com/vaioeco

### Regulation and Standard Compliance

Energy Star® Compliant: 4.0

Weight: 3.42 lbs7 (with standard battery)

Measurements: 12.4"(W) x 1.0-1.3"(H) x 8.3"(D)7

## Supplied Accessorie

Standard Lithium-ion battery (VGP-BPS12)

AC Adapter (VGP-AC19V26)

Power Cable

Stick AC Adapter (VGP-AC19V30)

Port Replicator (VGP-PRZ1)

Additional Standard Capacity Battery (VGP-BPS12) Large Capacity Battery (VGP-BPL12)

VAIO® Protection Case (VGP-CKZ1)

USB Optical Mouse (VGP-UMS30/B)

Bluetooth® Laser Mouse16 (VGP-BMS33/B) Neoprene Case (VGP-AMC1)

Compact Carrying Case (VGP-CCB3) Leather Notebook Cover (VGP-CVZ1)

Color: Premium Carbon Fiber Black UPC Code: 027242765528

- 1. GHz denotes microprocessor internal clock speed; other factors may
- affect application performance. CPU speed will be reduced under certain operating conditions.

  2 GB means one billion bytes when referring to hard drive capacity. Accessible capacity may vary. A portion of hard disk space is
- Accessible capacity may vary. A portion of hard disk space is reserved as a recovery partition.

  3. Requires 802.11n compatible access point. Some functionality may require Internet services, which may require a fee.

  4. Broadband Internet service required along with third party services which may require a subscription or other service fee.

  5. Requires high definition-capable display with HDMI<sup>PI</sup> connector. Image quality will vary.

  6. Viewable area measured diagonally.

  7. Non-metric weights and measures are approximate and may vary.

  8. Measured at the narrowest point

  9. i.LINK is a trademark of Sony used only to designate that a product contains an IEEE 1394 connector. All products with an i.LINK

- contains an IEEE 1394 connector. All products with an i.LINK connector may not communicate with each other.

  10. Total Available Graphics Memory refers to the new Windows Vista® classification of graphics memory, which varies depending on the operating condition, version of device driver and system memory size.

- 11. Actual battery life may vary based on product settings, usage patterns and environmental conditions. Battery life will be shorter with models equipped with Instant Mode features.
- 12. See actual limited warranty for details. For a copy of Sony's warranty, please visit www.sony.com/pcsupport, call tollfree 888-476-6972 (888-4SONYPC) or write to Sony Electronics, 12451 Gateway Boulevard, Fort Myers, FL 33913.
- 13. For certain third party software applications, Sony provides first level
- 13. For certain third party software applications, Sony provides first level phone support. Additional telephone support may be available from the applicable 3rd party vendor. Availability and schedule for any such support is determined by the aplicable software vendor.

  14. 60-Day Trial Version of Microsoft® Office 2007 This trial software will work only for 60 days after you first use it. You will not be able to use the software if you dont activate it as described the first time you use the software. You can activate the software by Internet: Internet service charges may apply. If you want to keep using the software after the 60-day trial period, you must convert to the perpetual version. You can convert online by following the conversion instgructions presented during setup and paying the required fees.

  15. A portion of the system memory over 3GB may not be available to the operating system.
- 15. A polition of the system memory over 300 may have a draws 30 the operating system.

  16. Interoperability and compatibility among Bluetooth® devices vary.

  17. Requires high definition-capable display with HDM™ connector.
- Image qualify will vary.

  18. Certain circumstances may limit / prevent Bluray Disc™ media playback. For optimal performance, download all updates from http://esupport.sony.com/EN/DRIVERS.
- 19. Video recording to Blu-ray Disc™ media is done in MPEG2 and AVC
- The Victor lecturing to Gorday 2002. The formats only.
   Subscription with a third party carrier is required. Service activation and other fees apply. Terms & Conditions and additional restrictions.

Computer Interface: For this product, there are a multitude of varying software packages and add-on hardware options. This product is not manufactured to work with any specific software, and Sony does not and cannot make any warranty or representation with respect to the cannot make any warranty of representation with respect to the performance of this product with any particular software packages and/or non-Sony add-on hardware options except those mentioned here. Sony hereby disclaims any representations or warranties that this product is compatible with any combination of non-Sony products you may choose to connect to it. While Sony representatives or Sony authorized dealers may be able to assist you and may make recommendations, they are NOT authorized to vary or waive this disclaimer. Purchasers must determine for themselves the suitability and compatibility of the hardware and software in each and every particular instance. Software titles pre-installed on the Sony computer are subject to change without notice. Preinstalled software may not be identical to retail versions or have all documentation. Features and specifications are subject to change without notice. This product meets the standards of the retail versions or nave all occumentation. Features and specifications are subject to change without notice. This product meets the standards of the International Energy Star Program for energy efficiency.

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